

EXHIBIT 1 TO APPENDIX “B”

**CERTIFICATE OF COMPLIANCE
WITH
PROHIBITION ON USE OF SPECIFIED MATERIALS IN CONNECTIONS TO
MUNICIPAL UTILITY DISTRICT WATER SYSTEM**

I, _____ (Name of Plumber), a duly licensed plumber in the State of Texas, hereby certify that the connection(s) referenced immediately below at _____ (Address) (the “connection”) complies in full with the “Prohibition of Use of Specified Materials” provision contained in the Amended and Restated Rules and Regulations for **SOUTHERN MONTGOMERY COUNTY MUNICIPAL UTILITY DISTRICT**. Specifically, each and every pipe and pipe fitting used for the new construction contains less than 0.25% lead. Further, any and all solder or flux used in the improvement contains less than 0.2% lead. These determinations have been made under my direction and supervision. I am aware that there are significant penalties for false certification, up to \$20,000.

Signature _____

Printed Name _____

Company Name _____

Texas License No. _____

Date _____

EXHIBIT 2 TO APPENDIX “B”

Customer Service Inspection Certificate

Name of PWS:	
PWS ID #:	
Location of Service:	

Reason for Inspection:	
New construction	<input type="checkbox"/>
Existing service where contaminant hazards are suspected	<input type="checkbox"/>
Material improvement, correction or expansion of distribution facilities	<input type="checkbox"/>

I _____, upon inspection of the private water distribution facilities connected to the aforementioned public water supply do hereby certify that, to the best of my knowledge

Compliance	Non-Compliance		
<input type="checkbox"/>	<input type="checkbox"/>	(1)	No direct or indirect connection between the public drinking water supply and a potential source of contamination exists. Potential sources of contamination are isolated from the public water system by an air gap or an appropriate backflow prevention assembly in accordance with Commission regulations.
<input type="checkbox"/>	<input type="checkbox"/>	(2)	No cross-connection between the public drinking water supply and a private water system exists. Where an actual air gap is not maintained between the public water supply and a private water supply, an approved reduced pressure principle backflow prevention assembly is properly installed.
<input type="checkbox"/>	<input type="checkbox"/>	(3)	No connection exists which would allow the return of water used for condensing, cooling or industrial processes back to the public water supply.
<input type="checkbox"/>	<input type="checkbox"/>	(4)	No pipe or pipe fitting which contains more than 8.0% lead exists in private water distribution facilities installed on or after July 1, 1988 and prior to January 4, 2014.
<input type="checkbox"/>	<input type="checkbox"/>	(5)	Plumbing installed on or after January 4, 2014 bears the expected labeling indicating $\leq 0.25\%$ lead content. If not properly labeled, please provide written comment.
<input type="checkbox"/>	<input type="checkbox"/>	(6)	No solder or flux which contains more than 0.2% lead exists in private water distribution facilities installed on or after July 1, 1988.

I further certify that the following materials were used in the installation of the private water distribution facilities:

Service lines:	Lead <input type="checkbox"/>	Copper <input type="checkbox"/>	PVC <input type="checkbox"/>	Other <input type="checkbox"/>
Solder:	Lead <input type="checkbox"/>	Lead Free <input type="checkbox"/>	Solvent Weld <input type="checkbox"/>	Other <input type="checkbox"/>

Remarks:	
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I recognize that this document shall be retained by the aforementioned Public Water System for a minimum of ten years and that I am legally responsible for the validity of the information I have provided.

Signature of Inspector:		License Type:	
Inspector Name(Print/Type):		License Number:	
Title of Inspector:		Date / Time of Insp.:	/

A Customer Service Inspection Certificate should be on file for each connection in a public water system to document compliance with 30 TAC § 290.44(h)/290.46(j).

EXHIBIT 3 TO APPENDIX "B"

BACKFLOW PREVENTION ASSEMBLY TEST AND MAINTENANCE REPORT

The following form must be completed for each assembly tested. A signed and dated original must be submitted to the public water supplier for recordkeeping *purposes:

NAME OF PWS:	
PWS ID#:	
PWS MAILING ADDRESS:	
PWS CONTACT PERSON:	
ADDRESS OF SERVICE:	

The backflow prevention assembly detailed below has been tested and maintained as required by commission regulations and is certified to be operating within acceptable parameters.

TYPE OF BACKFLOW PREVENTION ASSEMBLY (BPA):			
<input type="checkbox"/>	Reduced Pressure Principle (RPBA)	<input type="checkbox"/>	Reduced Pressure Principle-Detector (RPBA-D) Type II <input type="checkbox"/>
<input type="checkbox"/>	Double Check Valve (DCVA)	<input type="checkbox"/>	Double Check-Detector (DCVA-D) Type II <input type="checkbox"/>
<input type="checkbox"/>	Pressure Vacuum Breaker (PVB)	<input type="checkbox"/>	Spill-Resistant Pressure Vacuum Breaker (SVB)
Manufacturer:		Size:	
Model Number:		BPA Location:	
Serial Number:		BPA Serves:	

Reason for test:	New <input type="checkbox"/>	Existing <input type="checkbox"/>	Replacement <input type="checkbox"/>	Old Model/Serial #
Is the assembly installed in accordance with manufacturer recommendations and/or local codes?				<input type="checkbox"/> Yes <input type="checkbox"/> No
Is the assembly installed on a non-potable water supply (auxiliary)?				<input type="checkbox"/> Yes <input type="checkbox"/> No

TEST RESULT	Reduced Pressure Principle Assembly (RPBA)			Type II Assembly	PVB & SVB	
	DCVA		Relief Valve	Bypass Check	Air Inlet	Check Valve
PASS <input type="checkbox"/>	1 st Check	2 nd Check***				
FAIL <input type="checkbox"/>						
Initial Test	Held at ___ psid Date: Closed Tight <input type="checkbox"/> Time: Leaked <input type="checkbox"/>	Held at ___ psid Closed Tight <input type="checkbox"/> Leaked <input type="checkbox"/>	Opened at ___ psid Did not open <input type="checkbox"/>	Held at ___ psid Closed Tight <input type="checkbox"/>	Opened at ___ psid Did not open <input type="checkbox"/> Did it fully open (Yes <input type="checkbox"/> /No <input type="checkbox"/>	Held at ___ psid Leaked <input type="checkbox"/>
Repairs and Materials Used**	Main: Bypass:					
Test After Repair	Held at ___ psid Date: Closed Tight <input type="checkbox"/> Time:	Held at ___ psid Closed Tight <input type="checkbox"/>	Opened at ___ psid	Held at ___ psid Closed Tight <input type="checkbox"/>	Opened at ___ psid	Held at ___ psid

*** 2nd check: numeric reading required for DCVA only

Differential pressure gauge used:	Potable: <input type="checkbox"/>	Non-Potable: <input type="checkbox"/>
Make/Model:	SN:	Date tested for accuracy:
Company Name:	Licensed Tester Name (Print/Type):	
Company Address:	Licensed Tester Name (Signature):	
Company Phone #:	BPAT License #	
	License Expiration Date:	

The above is certified to be true at the time of testing.

* TEST RECORDS MUST BE KEPT FOR AT LEAST THREE YEARS [30 TAC §290.46(B)]

** USE ONLY MANUFACTURER'S REPLACEMENT PARTS

EXHIBIT 4 TO APPENDIX "B"

**SOUTHERN MONTGOMERY COUNTY MUNICIPAL UTILITY DISTRICT
RETAIL SERVICE AGREEMENT**

I. **PURPOSE.** SOUTHERN MONTGOMERY COUNTY MUNICIPAL UTILITY DISTRICT (the "District") is responsible for protecting the drinking water supply from contamination or pollution which could result from improper system construction or configuration on the retail connection owner's side of the meter. The purpose of this service agreement is to notify each customer of the restrictions which are in place to provide this protection. The District enforces these restrictions to ensure the public health and welfare. Each retail customer must sign this agreement before the District will begin service. In addition, when service to an existing retail connection has been suspended or terminated, the District will not re-establish service unless it has a signed copy of this agreement.

II. **RESTRICTIONS.** The following unacceptable practices are prohibited by State regulations.

A. No direct connection between the public drinking water supply and a potential source of contamination is permitted. Potential sources of contamination shall be isolated from the public water system by an air-gap or an appropriate backflow prevention device.

B. No cross-connection between the public drinking water supply and a private water system is permitted. These potential threats to the public drinking water supply shall be eliminated at the service connection by the installation of an air-gap or a reduced pressure-zone backflow prevention device.

C. No connection which allows water to be returned to the public drinking water supply is permitted.

D. No pipe or pipe fitting which contains more than 0.25% lead may be used for the installation or repair of plumbing at any connection which provides water for human use.

E. No solder or flux which contains more than 0.2 percent lead can be used for the installation or repair of plumbing at any connection which provides water for human use.

III. **SERVICE AGREEMENT.** The following are the terms of the service agreement between the District and the undersigned (the "Customer").

A. The District will maintain a copy of this agreement as long as the Customer and/or the premises is connected to the District's water system.

B. The Customer shall allow his property to be inspected for possible cross-connections and other potential contamination hazards. These inspections shall be conducted by the District or its designated agent prior to initiating new service; when there is reason to believe that cross-connections or other potential contamination hazards exist; or after any major changes to the private water distribution facilities. The inspections shall be conducted during the District's normal business hours.

C. The District shall notify the Customer in writing of any cross-connection or other potential contamination hazard which has been identified during the initial inspection or the periodic re-inspection.

D. The Customer shall immediately remove or adequately isolate any potential cross-connections or other potential contamination hazards on his premises.

E. The Customer shall, at his expense, properly install, test, and maintain any backflow prevention device required by the District. Copies of all testing and maintenance records shall be provided to the District.

IV. **ENFORCEMENT.** If the Customer fails to comply with the terms of the Service Agreement, the District shall, at its option, either terminate service or properly install, test, and maintain an appropriate backflow prevention device at the service connection. Any expenses associated with the enforcement of this agreement shall be billed to the Customer.

The District has adopted rules and policies protecting the drinking water supply and prohibiting tampering with, removing, adjusting or interfering with a meter, meter box or other component part of the water supply system. Violation of the District's rules and policies applicable to the water supply system is punishable by penalties up to \$20,000, plus the District's attorney's fees and other costs, and such violation shall, at the District's option, result in termination of District water service.

CUSTOMER SIGNATURE: _____

DATE: _____

CUSTOMER NAME: _____

ADDRESS: _____

ACCOUNT. NO.: _____

APPENDIX B
PLUMBING CODE
Effective as of October 1, 2020

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**APPENDIX “B”
PLUMBING CODE**

The following provisions shall govern the design, installation and inspection of all connections and taps made to the District’s water and sewer system. Only those materials listed below are approved for use in the District. The City of Houston Building Code, as amended, shall govern on method of installation, pipe sizing, fixture count and all general requirements, insofar as it applies to water supply and sewage collection systems, and to the extent that it is not contradictory to this Order. NOTE: THE DISTRICT’S CODE IS STRICTER THAN THE CITY OF HOUSTON CODE ON CERTAIN ITEMS SET FORTH BELOW AND THE DISTRICT’S CODE SHALL BE ENFORCED REGARDING THOSE ITEMS.

SECTION I: GENERAL REQUIREMENTS

SECTION 1.01. PLATTING REQUIREMENT.

No connection shall be made to the District’s Water Supply System or Sanitary Sewer Collection System unless the tract, parcel, or lot of land to be served by such connection:

- A. was first connected to the District’s Water Supply System or Sanitary Sewer Collection System prior to September 1, 1987, or
- B. is part of an area covered by a development plat duly approved and recorded pursuant to Sections 212.0115 and 212.012 of the Texas Local Government Code, as amended, or
- C. is not required to be platted and written certification to that effect, in accordance with Texas Local Gov’t. Code Section 212.0115(e) has been presented to the General Manager, or
- D. was first connected to the District’s Water Supply System or Sanitary Sewer System prior to September 1, 1987 and will be re-developed or modified.

SECTION 1.02. APPROVAL OF PLANS AND SPECIFICATIONS.

Prior to any connection to the District’s Water Supply System or Sanitary Sewer Collection System, the plans and specifications for the Sanitary Sewer Service Line and the Water Service Line must be approved by the approving Authority.

SECTION 1.03. DIAMETER OF SERVICE LINES.

- A. New Residential service lines shall be sized according to City of Houston Building Code and in no case shall be smaller than 3/4 inch for water or 4 inches for sanitary sewer.
- B. New Commercial service lines shall be sized according to City of Houston Building Code and in no case shall be smaller than 1 inch for water and 6 inches for sanitary sewer.

SECTION 1.04. SOLVENT.

Solvent for ABS shall be ASTM Designation D-2235. Solvent for PVC shall be ASTM Designation D-2564. Industrial Polychemical Solvent 793 shall be used for joining PVC to ABS.

SECTION II: SEWER CONNECTION REQUIREMENTS

SECTION 2.01. BUILDING SERVICE LINES.

- A. Waste pipe material shall be of the following material only:
1. Schedule 40 ABS Plastic CS 270 NSF-DWV, ASTM Designation D-2661.
 2. Schedule 40 PVC Plastic CS-272 NSF-DWV, ASTM Designation D-2665.
 3. For temperatures in excess of one hundred (100) degrees Fahrenheit, Schedule 40 CPVC Plastic, ASTM Designation D-3034 MUST BE USED.
 4. Ductile Iron Hub Type Soil pipe Extra Heavy Service weight, ASTM A-74, with Rubber Ring and Gasket or Lead and Oakum joint. "No-Hub" pipe is not permitted below grade.
 5. Ductile iron pipe (push on joint) conforming to ANSI A21.51.

SECTION 2.02. GRADE (WASTE LINES).

- A. Minimum grade for four-inch sewer pipe shall be one percent (1%) (one-foot drop/hundred feet run), with a maximum grade of 4.25 percent (4.25-foot drop/hundred feet run).
- B. Minimum grade for six-inch sewer pipe shall be 0.7 percent (8.5-inch drop/hundred feet run), with a maximum grade of 2.5 percent (30-inch drop/hundred feet run).

SECTION 2.03. ROAD CROSSING REQUIREMENTS.

- A. Road crossings shall be made in accordance to COH and Montgomery County standards. All governmental permits must be obtained prior to start of construction.
- B. Road bores without casing must be constructed of ductile iron pipe [see 2.01A.4.] or plastic pipe with equal strength of ductile iron pipe (C900, Blue Brute or Vynle Iron).
- C. Road bores with casing must have casing constructed of steel pipe of a minimum of 0.25" sidewall thickness or PVC DR-18.

SECTION 2.04. REQUIREMENTS FOR MANHOLE INSTALLATION.

- A. Type of manhole:
- Pre-cast concrete manhole with City of Houston specified ring and lid set to grade in utility easement.
 - Poured in place manhole with City of Houston specified ring and lid set to grade in utility easement.
- B. Location shall be in public utility easement.

- C. Drop manhole: If there is more than two feet difference between the invert of the manhole and the incoming wastewater line, then a drop line shall be installed into the manhole according to City of Houston specifications.
- D. Installation: The Owner or Developer shall be responsible for the installation of the manhole and/or stub out service line.

SECTION 2.05. CONNECTION OF BUILDING STUB-OUTS TO SERVICE LINES.

- A. Building tie-on connections: Building tie-on connections shall be made directly to the stub at the foundation on all waste outlets.
- B. Type of waste connections: Watertight adaptor shall be used at house connections. All other connections shall be solvent weld.
- C. Drain rim: No drain rim shall be installed less than one foot above the top of the nearest manhole.

SECTION 2.06. FITTINGS AND CLEANOUTS.

- A. Bends or turns: No bends or turns at any point shall be greater than 45 degrees.
- B. Installation requirements: Each horizontal drainage pipe shall be provided with a clean out at its upper terminal; and each such run of piping which is more than 90 feet in length shall be provided with a clean out for each 90 feet or fraction thereof, in the length of such piping.
- C. Installation: Each clean out shall be installed so that it opens in a direction opposite to the flow of the waste and, except in the case of two “wye” branch and end-of-line cleanouts, cleanouts shall be installed vertically above the flow line of the pipe.
- D. Airtight plug: Cleanout should be made with airtight mechanical plug.
- E. Manhole/sampling well may be required on commercial installations per District Engineer review.

SECTION 2.07. UNDER SLAB PLUMBING.

Under slab pipe and fittings shall be Cast Iron or Schedule 40 PVC.

SECTION 2.08. COMPLIANCE WITH EXISTING AUTHORITY.

- A. Exceptions: Unless exception is granted by the Approving Authority, the public sanitary sewer system shall be used by all persons discharging wastewater.
- B. Waste discharge: Unless authorized by the Texas Commission on Environmental Quality, no person may deposit or discharge any waste included in subsection “A” of this section on public or private property or into or adjacent to any:

1. natural outlet;
 2. watercourse;
 3. storm sewer;
 4. other area within the jurisdiction of the District.
- C. Suitable treatment: The Approving Authority shall verify prior to discharge that wastes authorized to be discharged will receive suitable treatment within the provisions of laws, regulations, ordinances, rules and orders of federal, state and local governments.

SECTION 2.09. APPROVING AUTHORITY REQUIREMENTS.

- A. Discharges: If discharges or proposed discharges to public sewers may:
1. deleteriously affect wastewater facilities, processes, equipment, or receiving waters;
 2. create a hazard to life or health; or
 3. create a public nuisance;
- the Approving Authority shall require a) the discontinuation of the discharges by voluntary action of the discharger or termination of service by the District; or b) pretreatment to an acceptable condition for discharge to the public sewers, control over the quantities and rates of discharge, and payment to cover the cost of handling and treating the wastes.
- B. Determination: The Approving Authority is entitled to determine whether a discharge or proposed discharge is included under subsection “A” of this section.
- C. Waste rejection: The Approving Authority shall reject wastes when it determines that a discharge or proposed discharge cannot be pretreated.

SECTION 2.10. APPROVING AUTHORITY REVIEW AND APPROVAL.

- A. Pretreatment or control: If pretreatment or control is required, the Approving Authority shall review and approve design and installation of equipment and processes. A fee will be charged to cover the cost of said review.
- B. Equipment and processes: The design and installation of equipment and processes must conform to all applicable statutes, codes, ordinances and other laws.
- C. Responsibility for pretreatment: Any person responsible for discharges requiring pretreatment, flow equalizing, or other facilities shall provide and maintain the facilities in effective operating condition at his own expense.

SECTION 2.11. REQUIREMENTS FOR TRAPS.

- A. Discharges requiring a trap include:

1. grease or waste containing grease in amounts that will impede or stop the flow in the public sewers;
 2. oil;
 3. sand;
 4. flammable wastes; and,
 5. other harmful ingredients.
- B. Responsibility: Any person responsible for discharges requiring a trap shall at his own expense and as required by the Approving Authority:
1. provide equipment and facilities of a type and capacity approved by the Approving Authority;
 2. locate the trap in a manner that provides ready and easy accessibility for cleaning and inspection;
 3. maintain the trap in effective operating condition acceptable to the Approving Authority to protect overall Sanitary Sewer Collection System and Wastewater Facilities operation; and,
 4. provide the District with a copy of an ongoing contract with a licensed hauler for regular, routine pumping and disposal of the required trap prior to receiving service from the District and a copy of the canceled checks evidencing payment for such regular pumping and disposal shall be provided to the operator of the District's facilities on a regular basis.

SECTION 2.12. REQUIREMENTS FOR CONTROL MANHOLE/SAMPLING WELL.

Responsibility: Any person responsible for discharges through a building sewer carrying Industrial Wastes shall, at his own expense and as required by the Approving Authority:

1. install an accessible control manhole;
2. install meters and other appurtenances to facilitate observation sampling and measurement of the waste;
3. install safety equipment and facilities (ventilation, steps...) where needed; and,
4. maintain the equipment and facilities.

SECTION 2.13. SAMPLING AND TESTING.

- A. Sampling method: Sampling shall be conducted according to customarily accepted methods, reflecting the effect of constituents upon the sewage works and determining the existence of hazards to health, life, limb, and property.

(NOTE: The particular analysis involved will determine whether a twenty-four (24) hour composite sample from all outfalls of a premises is appropriate or whether a grab sample or samples should be taken. Normally, but not always, BOD and suspended solids analyses are obtained from 24-hour composites of all outfalls. Where applicable, 16-hour, 8-hour or some other period may be required. Periodic grab samples are used to determine Ph and oil and grease.)

- B. Examination and analyses of the characteristics of waters and wastes required by the ordinance shall be:
 - 1. conducted in accordance with the latest edition of “Standard Methods;” and,
 - 2. determined from suitable samples taken at the control manhole provided or other control point authorized by the Approving Authority.
- C. BOD and suspended solids shall be determined from composite sampling, except to detect unauthorized discharges.
- D. Wastewater of greater than normal strength: The Approving Authority shall determine which users or classes of users may contribute wastewater which is of greater strength than normal domestic wastewater. All users or classes of users so identified shall be sampled for flow BOD, suspended solids and Ph at least annually.
- E. Flow determination: District may select an independent firm or laboratory to determine flow, BOD, and suspended solids, if necessary. Flow may alternately be determined by water meter measurements if no other flow device is available and no other source of raw water is used.

SECTION 2.14. PROHIBITED DISCHARGES.

- A. Discharges: No person may discharge to public sewers any waste which by itself or by interaction with other wastes may:
 - 1. injure or interfere with wastewater treatment processes or facilities;
 - 2. constitute a hazard to humans or animals; or,
 - 3. create a hazard in receiving waters of the wastewater treatment plant effluent.
- B. Industrial waste: No industrial waste will be discharged into the District’s system.

SECTION 2.15. CHEMICAL DISCHARGES.

- A. Sewers: No Discharge to Public Sewers may contain:
 - 1. cyanide greater than .01 mg/l;
 - 2. fluoride other than that contained in the public water supply;
 - 3. chlorides in concentrations greater than 250 mg/l;

4. gasoline, benzene, naphtha, fuel oil, or other flammable or explosive liquid, solid or gas; or,
 5. substances causing an excessive Chemical Oxygen Demand (C.O.D.).
- B. Waters: No Waste or Wastewater Discharged to public waters may contain:
1. strong acid, iron pickling wastes, or concentrated plating solutions whether neutralized or not;
 2. fats, wax, grease, or oils, whether emulsified or not in excess of one hundred (100) mg/l or containing substances which may solidify or become viscous at temperature between thirty-two (32) and one hundred fifty (150) degrees Fahrenheit (0 and 65 degrees Centigrade);
 3. objectionable or toxic substances, exerting an excessive chlorine requirement, to such degree that any such material received in the composite wastewater treatment works exceeds the limits established by the Approving Authority for such materials; or,
 4. obnoxious, toxic or poisonous solids, liquids, or gases in quantities sufficient to violate the provisions of Section 2.15A.
- C. Substance content: No Waste, Wastewater, or other substance may be discharged into public sewers which has a Ph lower than 6.0 or higher than 9.0 or any other corrosive property capable of causing damage or hazard to structures, equipment, and/or personnel at the Wastewater Facilities.
- D. Concentration limits: All Waste, Wastewater, or other substance containing phenols, hydrogen sulfide, or other taste-and-odor producing substances, shall conform to concentration limits established by the Approving Authority. After treatment of the composite wastewater, concentration limits may not exceed the requirements established by state, federal, or other agencies with jurisdiction over discharges to receiving waters.

SECTION 2.16. HAZARDOUS METALS AND TOXIC MATERIALS.

- A. Concentrations: No discharges may contain concentrations of hazardous metals other than amounts specified in subsection "B" of this section.
- B. Allowable concentrations: The allowable concentrations of hazardous metals, in terms of milligrams per liter (mg/l), for discharge to inland waters, and determined on the basis of individual sampling in accordance with "Standard Methods" are:

Metal	<u>Not to Exceed</u>		
	Average	Daily Composite	Grab Sample
1. Arsenic	0.1	0.2	0.3
2. Barium	1.0	2.0	4.0
3. Cadmium	0.05	0.1	0.2
4. Chromium	0.5	1.0	5.0
5. Copper	0.5	1.0	2.0
6. Lead	0.5	1.0	1.5
7. Manganese	1.0	2.0	3.0
8. Mercury	0.005	0.005	0.01
9. Nickel	1.0	2.0	3.0
10. Selenium	0.05	0.1	0.2
11. Silver	0.05	0.1	0.2
12. Zinc	1.0	2.0	6.0

The allowable concentrations of each of the hazardous metals stated in terms of milligrams per liter (mg/l).

- C. Other: No other hazardous metals or toxic materials may be discharged into public sewers without a permit from the Approving Authority specifying conditions of pretreatment, concentrations, volumes, and other applicable provisions.
- D. Prohibited hazardous materials include but are not limited to:
 - 1. Antimony,
 - 2. Beryllium,
 - 3. Bismuth,
 - 4. Cobalt,
 - 5. Molybdenum,
 - 6. Uranylion,
 - 7. Rhenium,
 - 8. Strontium,
 - 9. Tellerium,
 - 10. Herbicides,
 - 11. Fungicides, and
 - 12. Pesticides.

SECTION 2.17. PARTICULATE SIZE.

- A. Particle size: No Person may Discharge garbage or other solids into Public Sewers unless it is shredded to a degree that all particles can be carried freely under the flow conditions normally prevailing in public sewers. Particles greater than one-half (1/2) inch in any dimensions are prohibited.
- B. Garbage grinders: The Approving Authority is entitled to review and approve the installation and operation of any garbage grinder equipped with a motor of three-fourths (3/4) horsepower (0.76 hp metric) or greater.

SECTION 2.18. STORM WATER AND OTHER UNPOLLUTED DRAINAGE.

- A. Sewers: No Person may discharge to Sanitary Sewers:
 - 1. unpolluted storm water, surface water, groundwater, swimming pools, roof runoff or subsurface drainage;
 - 2. unpolluted cooling water;
 - 3. unpolluted industrial process waters; or,
 - 4. other unpolluted drainage or make new connections from inflow sources.
- B. The Approving Authority may designate storm sewers and other watercourses into which unpolluted drainage described in subsection “A” of this section may be discharged.

SECTION 2.19. TEMPERATURE.

No person may discharge liquid or vapor having a temperature higher than one hundred fifty (150) degrees Fahrenheit (65 degrees Centigrade), or any substance which causes the temperature of the total Wastewater Treatment Plant influent to increase at a rate of ten (10) degrees Fahrenheit or more per hour, or a combined total increase of plant influent to one hundred ten (110) degrees Fahrenheit.

SECTION 2.20. RADIOACTIVE WASTES.

- A. Radioactive wastes/isotopes: No Person may Discharge radioactive wastes or isotopes into Public Sewers without the permission of the Approving Authority.
- B. Regulations: The Approving Authority may establish, in compliance with applicable state and federal regulation, regulations for discharge of radioactive wastes into public sewers.

SECTION 2.21. IMPAIRMENT OF FACILITIES.

- A. Discharge: No person may discharge into public sewers any substance capable of causing:
 - 1. obstruction to the flow in sewers;
 - 2. interference with the operation of Wastewater Treatment Plant processes, Sanitary Sewer Collection System or Wastewater Facilities; or,
 - 3. excessive loading of treatment facilities.
- B. Prohibited discharges: Discharge prohibited by this Section include, but are not limited to, materials which exert or cause concentrations of:
 - 1. inert suspended solids greater than 250 mg/l including but not limited to:
 - Fuller’s earth;
 - lime slurries; and,
 - lime residues;

2. dissolved solids greater than 750 mg/l including but not limited to:
sodium chloride; and,
sodium sulfate;
 3. excessive discoloration including but not limited to:
dye wastes; and vegetable tanning solutions; or,
 4. BOD, COD, or chlorine demand in excess of normal Wastewater Treatment Plant capacity.
- C. Discharges to public sewers: No Person may Discharge into Public Sewers any substance that may:
1. deposit grease or oil in the sewer lines in such a manner as to clog the sewers;
 2. overload skimming and grease handling equipment;
 3. pass to the receiving waters without being effectively treated by normal Wastewater treatment processes due to the non-amenability of the substance to bacterial action;
or,
 4. deleteriously affect the treatment process due to excessive quantities.
- D. Unpermitted discharges: A Person may not discharge any substance into Public Sewers which:
1. is not amenable to treatment or reduction by the processes and facilities employed;
or,
 2. is amenable to treatment only to such a degree that the treatment plant effluent cannot meet the requirements of other agencies having jurisdiction over discharge to the receiving waters.
- E. Regulation: The Approving Authority shall regulate the flow and concentration of Slugs when they may:
1. impair the Wastewater Treatment Plant process;
 2. cause damage to Wastewater Collection Facilities or the Sanitary Sewer Collection System;
 3. incur treatment costs exceeding those for normal wastewater; or,
 4. render the effluent unfit for stream disposal or industrial use.
- F. Solids or viscous substances: No person may discharge into public sewers solid or viscous substances which may violate subsection "A" of this section if present in sufficient quantity or size including but not limited to:

1. ashes;
2. cinders;
3. sand;
4. mud;
5. straw;
6. shavings;
7. metal;
8. glass;
9. rags;
10. feathers;
11. tar;
12. plastics;
13. wood;
14. unground garbage;
15. whole blood;
16. paunch manure;
17. hair and fleshings;
18. entrails;
19. paper products, either whole or ground by garbage grinders;
20. slops;
21. chemical residues;
22. paint residues; or,
23. bulk solids.

SECTION III: WATER CONNECTION REQUIREMENTS

SECTION 3.01. WATER TAP MATERIALS.

Only the following types of pipe and fitting materials shall be approved for the installation of Water Taps, including residential Water Taps and commercial Water Taps:

1. Any meter approved by the City of Houston;
2. Brass curb stops, corp stops, and related fittings manufactured by Ford, Hays or Muller;
3. Polyethylene water service pipe, 3/4" to 2";
4. Cast iron or vinyl iron (C-900) water service pipe, larger than 2";
5. Water main pipe of the type originally installed;
6. Plastic meter box up to 2" meter;
7. Concrete meter box, where traffic use is specified; and
8. Concrete meter vault per City of Houston specifications for 3" and larger meter.

SECTION 3.02. PLUMBING MATERIALS PROHIBITIONS.

A. Prohibited Materials. The use of the following materials are prohibited for the installation and repair of the District's Water Supply System; and for the installation and repair of any private plumbing facilities:

1. any pipe or pipe fitting which contains more than 0.25% lead; and
2. any solder or flux which contains more than 0.2% lead.

This prohibition may be waived for lead joints that are necessary for repairs to cast iron pipe.

B. Certificate of Compliance. Except for temporary service for construction purposes, no new connections to the District's Water Supply System shall be made unless a state licensed plumber first submits in writing to the District a Certificate of Compliance, as set forth in Exhibit "1" attached hereto, specifying that the new connection complies with the plumbing materials prohibition contained in Section 3.02(A) hereof. The Certificate of Compliance shall be signed by the licensed plumber and submitted to the District after the plumbing is installed. Permanent service will not commence until the Certificate of Compliance is provided. Temporary service will be terminated if the Certificate of Compliance is not provided in a timely fashion.

SECTION 3.03. INSTALLATION.

1. Prior to the installation of a Water Tap, a customer must make proper application with the District; must pay to the District all Tap Fees, inspection fees and deposits, as described in the District's Rate Order, and must obtain approval from the Board of Directors for the Water Service Lines and Sanitary Sewer Service Lines.
2. All Water Taps to the District's Water Supply System shall be installed only by the District's Operator.
3. The District's operator shall install Water Taps and set Meters at a location on adjoining property lines, whenever possible, with the Meter box being located in the easement adjacent to the property line and with two Meters per box, where necessary.
4. The District's Operator shall be responsible for all repairs to Water Taps.
5. After installation of the Water Tap, connection of the Customer's Line shall be made at the expense of the customer. (Note: Line 4-inch and larger shall be tested for leaks and pass a Bacteriological test indicating no chloroforms present.)
6. After connection to the District's Water Supply System, the Water Service Line and the Customer's Line should be thoroughly flushed as to prevent foreign matter from entering the Customer's system.

SECTION 3.04. CUSTOMER SERVICE INSPECTION CERTIFICATIONS.

- A. A Customer Service Inspection Certification, as described in Exhibit “2” attached hereto, shall be completed prior to providing continuous water service to any new construction, on any existing service where the District has reason to believe that cross-connections or other unacceptable plumbing practices exist, and after any material improvement, correction, or addition to private plumbing facilities. Prior to the District initiating service, a customer shall provide a Customer Service Inspection Certification to the District. Copies of properly completed Customer Service Inspection Certifications shall be kept on file by the District and made available, upon request, for Texas Commission on Environmental Quality (“TCEQ”) review. Inspection Certifications shall be retained for a minimum of ten (10) years. Failure to provide a Customer Service Inspection Certification in accordance with this Section 3.04 shall constitute a violation of these Rules and Regulations.
- B. Individuals with the following credentials shall be recognized as capable of conducting a Customer Service Inspection Certification:
1. Plumbing Inspectors and Water Supply Protection Specialists licensed by the Texas State Board of Plumbing Examiners; and,
 2. Customer Service Inspectors who have completed a commission approved course, passed an examination administered by the TCEQ or its designated agent, and hold a current professional certification or an endorsement as a Customer Service Inspector.
- C. Private plumbing facilities in violation of Section III hereof, shall constitute an Unacceptable Plumbing Practice and violation of these Rules and Regulations. If an Unacceptable Plumbing Practice is discovered, the customer shall promptly eliminate the Unacceptable Plumbing Practice to prevent possible contamination of the District’s Water Supply System. The existence of a serious threat to the integrity of the District’s Water Supply System shall be considered sufficient grounds for immediate termination of water service. Service can be restored only when the source of potential contamination no longer exists, or until sufficient additional safeguards have been taken.
- D. The following Unacceptable Plumbing Practices are prohibited by state regulations and the District:
1. No direct connection between the District’s Water Supply System and a potential source of contamination is permitted. Potential sources of contamination are isolated from the District’s Water Supply System by an airgap or an appropriate backflow prevention assembly in accordance with state plumbing regulations. Additionally, all pressure relief valves and thermal expansion devices are in compliance with state plumbing regulations.
 2. No cross-connection between the District’s Water Supply System and a private water source is permitted. Where an actual airgap is not maintained between the District’s Water Supply System and a private water supply, an approved reduced pressure-zone backflow prevention assembly must be installed, and a service agreement exists for annual inspection and testing by a recognized backflow prevention assembly tester.

3. No connection which would allow the return of water used for condensing, cooling or industrial processes back to the District's Water Supply System is permitted.
4. No pipe or pipe fitting which contains more than 0.25% lead may be used for the installation or repair of plumbing at any connection which provides water for human use.
5. No solder or flux which contains more than 0.2% lead may be used for the installation or repair of plumbing at any connection which provides water for human use.
6. No plumbing fixture is installed which is not in compliance with a state-approved plumbing code.

SECTION 3.05. PROHIBITED CONNECTIONS.

- A. No water connection from the District's Water Supply System shall be made to any establishment where an actual or potential contamination or system hazard exists without an airgap separation between the drinking water supply and the source of potential contamination. Where a containment airgap is impractical, individual "internal" air gaps or mechanical backflow prevention devices shall be required at the meter in the form of a backflow prevention device (in accordance with AWWA Standards C510 and C511, and AWWA Manual M14) on those establishments handling substances deleterious or hazardous to the public health.
- B. No water connection from the District's Water Supply System shall be made to any condensing, cooling, or industrial process or any other system of non-potable usage over which the District does not have sanitary control, unless the said connection is made in accordance with the requirements of paragraph (A) of this section. Water from such systems cannot be returned to the District's Water Supply System.
- C. Overhead bulk water dispensing stations must be provided with an airgap between the filling outlet hose and the receiving tank to protect against back siphonage and cross-contamination.

SECTION 3.06. BACKFLOW PREVENTION ASSEMBLIES.

- A. Backflow prevention assemblies shall be installed on any connection which poses a Health Hazard and any other connection which the District or the District's Operator reasonably believe poses a threat to the District's Water Supply System. Water service provided for lawn sprinklers, swimming pool supply, reflection pool supply, or other such applications must incorporate a backflow prevention assembly approved by the District's Operator for the particular designated use. No permanent water service will be provided or continued to any connection in the District which requires a backflow prevention assembly, unless the customer provides the District with a Backflow Prevention Assembly Test and Maintenance Report (the "Test Report"), as described in Exhibit "3" attached hereto.
- B. Effective January 1, 1996, all backflow prevention assemblies shall be tested upon installation by a Recognized Backflow Prevention Assembly Tester and certified to be operating within specifications. The Test Report, as described in Exhibit "3" attached hereto, and any maintenance reports submitted to the District shall be retained for a minimum of three (3) years. The District shall provide these records to the TCEQ for inspection upon

request. Backflow prevention assemblies which are installed to provide protection against Health Hazards must also be tested and certified to be operating within specifications at least annually by a Recognized Backflow Prevention Device Tester.

- C. Recognized Backflow Prevention Device Testers shall have completed a TCEQ approved course on cross-connection control and backflow prevention and pass an examination administered by the TCEQ or its designated agent. The accredited tester classification shall be broken down into two categories:
 - 1. The “General Tester” is qualified to test and repair backflow prevention assemblies on any domestic, commercial, industrial or irrigation service.
 - 2. The “Fire line Tester” is qualified to test and repair backflow prevention assemblies on fire lines only. The State Fire Marshall’s office requires that a person performing maintenance on fire lines must be employed by an Approved Fire Line Contractor.
- D. Gauges used in the testing of backflow prevention assemblies shall be tested for accuracy annually in accordance with the University of Southern California’s Foundation of Cross-Connection Control and Hydraulic Research and/or the American Water Works Association Manual of Cross-Connection Control (Manual M-14). Test gauge serial numbers must be included on the Test Report and Recognized Backflow Prevention Device Testers shall have gauges tested for accuracy.
- E. A Test Report must be completed by the Recognized Backflow Prevention Assembly Tester for each assembly tested. The signed and dated original must be submitted to the District for record keeping purposes.
- F. Repairs to backflow prevention assemblies shall be performed by authorized individuals as recognized by the Texas State Board of Plumbing Examiners, the TCEQ, Texas Irrigators Advisory Council, or the Texas Commission on Fire Protection-State Fire Marshall’s Office, depending upon application and use.
- G. The use of a backflow prevention device at the service connection shall be considered as additional backflow protection and shall not negate the use of backflow protection on internal hazards as outlined and enforced by local plumbing codes.

SECTION 3.07. CUSTOMER SERVICE AGREEMENTS.

- A. The District is responsible for protecting its Water Supply System from contamination or pollution which can result from improper plumbing practices. To this end, the District has adopted plumbing restrictions to provide protection to the District’s Water Supply System. To notify customers of plumbing restrictions which are in place, each customer shall be required to sign a Customer Service Agreement, as described in Exhibit “4” attached hereto, before the District will begin service. In addition, when service to an existing connection has been suspended or terminated, the District will not reestablish service unless it has a signed copy of a Customer Service Agreement.

The District will maintain a copy of the Customer Service Agreement as long as the customer and/or premises is connected to the District.

- B. The customer shall allow his\her property to be inspected for possible cross-connections and other unacceptable plumbing practices. These inspections shall be conducted by the District or its designated agent prior to initiating new water service; when there is reason to believe that cross-connections or other unacceptable plumbing practices exist; or, after any major changes to the private plumbing facilities. Inspections shall be conducted during the District's normal business hours.
- C. The District shall notify the customer in writing of any cross-connection or other unacceptable plumbing practices which have been identified during the initial inspection or the periodic re-inspection.
- D. The customer shall immediately correct any undesirable plumbing practice on his/her premises.
- E. The customer shall, at his expense, properly install, test, and maintain any backflow prevention device required by the District. Copies of all testing and maintenance records shall be provided to the District.
- F. If a customer fails to comply with the terms of the Customer Service Agreement, the District shall, at its option, either terminate service or properly install, test, and maintain an appropriate backflow prevention assembly at the service connection. Any expenses associated with the enforcement of the Customer Service Agreement shall be billed to the customer.